# index—volume 45

## Subject index


**Communications**
- New prison phones 4
- Marconi boost ships' safety 4
- Technologies in low-power radio, by N. Long 32
- Free trade at last?, by C. Theys 36
- Not forever blowing bubbles, by B. Back 38
- BT invests in future with new UK and European networks 50
- Church services on CB radio now illegal 56
- Inmarsat sets date for privatisation 56
- UMTS – the next generation of mobile radio, by W. Webb 59
- Network capacity planning, by S. Wombell 79
- Faster infrared 98
- BT Internet launches voice over the net 98
- Can satellites unblock the Internet?, by M. Williamson 107
- OFTEL seeks views on virtual operators 146
- PMR goes digital 148
- Marconi links Europe and Asia 151
- The lessons of TETRA, by N. Long 182
- Syntegra to train army personnel 194
- Joint venture in mobile telephony 196
- New NATO communications standards 197

**Computing and control**
- Voltage fluctuation problem solved at British Sugar 2
- OFFER tackles millennium bug 2
- Spice Girls really, really want ABB drives 5
- Calls grow for Y2K immunity for IT suppliers 52
- Whisky galore 53
- Utilities 'on course to beat the millennium bug' 54
- Festo helps meet demand for cakes 56
- Simulation concert party, by P. Clarke 82
- Multi-domain modelling and simulation, by A. Goucem 85
- Servo drives control flying mirror 98
- First fuzzy logic control of nuclear fusion 100
- Liberté, fraternité and Linux, by R. Dettmer 115
- Software for measurement, by S. Holley 161
- Measuring software, by C. Jones 165
- Is it a bird? Is it a plane?, by K. Parker 178
- Bull keeps crime under control 194
- The harmonious chipsmith, by D. Howard 215
- Find that leak, by J. Golby 219
- Mobilising the Net, by G. Vincent 241
- Revolutionary workstation of the future 234
- Walking with dinosaurs 238
- ABB Advant control goes Underground 238

**Electronics**
- A rebirth in digital recording, by K. Henderson 13
- Security at your fingertips 50
- More cash for ARC 56

**Energy and the environment**
- Europe and USA collaborate on polar-orbiting satellite 2
- First willow-powered generator 2
- Off-grid electricity for developing countries, by A. Doig 25
- Harvesting energy, by K. Parker 30
- Gaming over for the Pool 50
- A UK first for Seacore 52
- Going solar 53
- Recovering value from scrap tyres 56
- Power protection for the Millennium Dome 57
- OWEN promotes research into offshore wind energy 57
- Eastern EcoPower Trust's first projects 100
- Power quality – the volts and amps of electricity , by A. Collinson 122
- Non-stop monitoring, by D. Sawyer 126
- An active approach to harmonic filtering, by P. Lynch 128
- One 2 One uses wind power to protect environment 146
- Living Planet project unveiled 146
- Earth Centre leads by example 148
- Rolls-Royce built power station begins operation 151
- Oil's no longer essential 194
- AquaSentry at the ready in the Scottish Highlands 196
- Ericsson cable technology tackles storms problem 197
- Budapest Chain Bridge lights up 197
- Special boards for Metros 197
- Have vars, can travel, by M. Luckett 207

**Management and education**
- For projects large or small – BiTE delivers the information you need 4
- The Eagle has flown, by K. Parker 18
- Robot Wars seek new combatants 102
- Academy boosts training 102
- Effective intellectual property management, by C. Moore 132
- City welcomes new technology 150
- UK business closes gap with USA 150
- Projects that fly, by I. Barnes 169
- Management exhibitions 196
- Project management guide 196
- Bucking the trend, by R. Dettmer 211
- What project managers need to know, by P. Morris 273
- Increase in interim management 234
- Record year for patents 236
- Virgin does the Biznet for small companies 236
- Occupational standards on the Net 237

**Manufacturing and design**
- Rover reaps the benefits of EDM, by C. Smith 73
- Early start for Electrex 2000 98
- New mechatronics facility at De Montfort 100
- National Lighting Design Awards 2000 146
- SLIMming down the EMC Directive, by D. Imeson 257
- On track for compliance, by C. Marshman 260
- Testing comes in from the cold, by M. Alexander 265
- BEMCA opens gateway to metering and communications 238

**New technology**
- More UK firms using VR 4
- Offshore industry searches for new technology 5
- Watts in space, by M. Williamson 19
- Lithium batteries, by C. Vincent 65
- The 100 GHz light switch, by R. Dettmer 69
- Surrey Space Centre launches UoSAT-12 minisatellite 148
- Green aircraft set for take off 150
- Virtual cities 151
- New star in orbit, by M. Williamson 201
- Signing on the digital line, by J. Elliott 223
- Another first in space for Surrey 236
- It's good to talk 237
- 'Hydro-powered' electric car on the road in Norway, by D. Rollo 239
- From Cold War to International Space Station, by M. Williamson 248

**Politics, social impact and history**
- EPSRC initiative communicates 57
- Hong Kong – no cause for concern?, by B. Papé 104
- UK 'spending less on R&D' 146
- OFFER+OFGAS creates OFGEM 148
- Bletchley Park plans move ahead with land deal 150
- First lady, by A. Ford 153
- From chalk pit to treasure trove, by K. Parker 159
- Minister calls for more for fuel poor 194
- Communicating knowledge in the real world, by M. Kennedy 253
- Blumlein and the birth of stereo, by R. Burns 269
- Right to fuel 234
- New E-Minister Group 236
- Transport and infrastructure
- City wins contract for smarter bridge 5
- Switchgear safety wins contract for Tube station refurbishment 100
- Ironbridge: new technology meets old 234
- Hong Kong airport rail link 236


## Author index


- Alexander, M.: Testing comes in from the cold 265
- Armstrong, K.: CE: not a mark of quality (letter) 176
- Back, B.: Not forever blowing bubbles 38
- Barbour, J.C.: Protection from strikes (letter) 78
- Barnes, I.: Projects that fly 169
- Bingley, P.: Teleprinter history (letter) 78
- Burns, R.: Blumlein and the birth of stereo 269
- Bussey, G.: Battery search (letter) 113
- Callick, B.: Science at war (letter) 42
- Caplen, G.J.: Powerformer (letter) 43
- Clarke, P.: Simulation concert party 82
- Collinson, A.: Power quality – the volts and amps of electricity 122
- Darney, L: Who benefits from the EMC Directive? (letter) 43
- Darney, L: Electromagnetic chaos (letter) 113
- Davidson, J.: Stannos installations (letter) 78
- Dell, H.: Disaster stories (letter) 42
- Dettmer, R.: Bucking the trend 211
- Dettmer, R.: The 100 GHz light switch 69
- Dettmer, R.: Liberté, fraternité and Linux 115
- Doig, A.: Off-grid electricity for developing countries 25
- Duggan, R.: Current puns (letter) 113
- Eades, T.: Disasters wanted (letter) 176
- Elliott, J.: Signing on the digital line 223
- Ford, A.: First lady 153
- Foster, A.: CE – what is its value? (letter) 206
- Gange, H.: The holistic approach (letter) 176
- Ganiford, B. : A very real problem (letter) 42
- Gibson, D.: Sound advice (letter) 113
- Giles, R.: Keep analogue going (letter) 206
- Golby, J.: Find that leak 219
- Goucem, A.: Multi-domain modelling and simulation 85
- Greenhalgh, D.: Meter mystery (letter) 78
- Ham, N.: Digital TV: a leap in the dark? (letter) 250
- Higginson, P.: Responsibility isn't the answer (letter) 42
- Henderson, K.: A rebirth in digital recording 13
- Hipperson, K.: Sick machines (letter) 206
- Holley, S.: Software for measurement 161
- Howard, D.: The harmonious chipsmith 215
- Imeson, D.: SLIMming down the EMC Directive 257
- Jones, C.: Measuring software 165
- Kennedy, M.: Communicating knowledge in the real world 253
- Lawrenson, P.: Book reviews (letter) 78
- Lebeam, B.: Natural ability (letter) 250
- Long, N.: The lessons of TETRA 182
- Long, N.: Technologies in low-power radio 32
- Luckett, M.: Have vars, can travel 207
- Lynch, P.: An active approach to harmonic filtering 128
- Marshman, C.: On track for compliance 260
- Moore, C.: Effective intellectual property management 132
- Morris, P.: What project managers need to know 273
- Papé, B.: Hong Kong – no cause for concern? 104
- Parker, K.: Is it a bird? Is it a plane? 178
- Parker, K.: The Eagle has flown 18
- Parker, K.: Harvesting energy 30
- Parker, K.: From chalk pit to treasure trove 159
- Raftery, J.: Engineer's Progress (letter) 78
- Roerig, C.: CE – what is its value? (letter) 206
- Roughton, D.: Digital TV: a leap in the dark? (letter) 250
- Sandell, R.: Digital TV: a leap in the dark? (letter) 250
- Sawyer, D.: Non-stop monitoring 126
- Smith, C.: Rover reaps the benefits of EDM 73
- Theys, C.: Free trade at last? 36
- Trim, R.: Infra-red systems (letter) 113
- Turner, W.: The Stannos system (letter) 43
- Vincent, C.: Lithium batteries 65
- Vincent, G.: Mobilising the Net 241
- Wale, E.: Caveat emptor (letter) 78
- Weaver, J.: Prison telephones (letter) 113
- Webb, W.: UMTS – the next generation of mobile radio 59
- Williamson, M.: Watts in space 19
- Williamson, M.: Can satellites unblock the Internet? 107
- Williamson, M.: New star in orbit 201
- Williamson, M.: From Cold War to International Space Station 248
- Wombell, S.: Network capacity planning 79
- Young, M.: Electromagnetic chaos (letter) 113


## New products


- ABB Control AF AC contactors 90
- ABB Control Safeline pan assembly 184
- adu2 Genix signal-conditioning system 226
- Adept Scientific ComputerBoards Universal Library 6
- Adept Scientific WebStore 90
- Adept Scientific Electronics Technician CBT training software 185
- Adept Scientific Electronics Workbench 226
- Advance-Galatrek Elite UPS 89
- Astec AA40M DC/DC converters 186
- Blue Wave Systems VME/C6420 DSP board 90
- Cadcentre VECnt visualisation software 138
- Chase Advanced Technologies Presentcase presentation system 90
- Coutant Lambda EMS power supplies 226
- Crompton Lighting Crompack 5 luminaires 91
- Concoat Synergie PCB materials 139
- Consumer Microcircuits RF chip set 6
- Cutler-Hammer NetPoINT interface 186
- Eastern Power & Energy Trading risk management package 138
- ENG-INN (electronics) QuanteQ test unit 139
- Faraday Technology anti-aliasing filters 186
- Focus Dynamics multidrive lift drives 88
- Granta Design Cambridge Engineering Selector 185
- Guardian Link CellData battery condition analyser 227
- Hitachi H8/300L microcontrollers 91
- Hitachi SH7751 RISC processor 184
- Hitachi H8S/2328F microcontroller 226
- IFR 2935/PhoneTest GSM Test Set 275
- Industrial Electronic Automation ICEberg information tool 227
- Infineon Technologies FingerTIP biometric sensor 274
- Inmoco Elmo Saxophone digital servo amplifiers 274
- Leroy Somer Varmeca motor 8
- Linear Motion Technology ServoRam linear motor 8
- Low Power Radio Solutions alarm system 274
- Magic Software eMerchant for Linux 227
- Massana FILU-200 DSP co-processor 227
- Mathcad Professional 2000 274
- Matsushita Automation Controls MP motion sensor 275
- Micrel-Synergy SY88913 postamplifier 227
- MTE Turck Banner Q45UR remote sensors 9
- MTE Turck switching amplifiers 88
- MTE Turck Banner MINI-BEAM Expert photoelectric sensor 91
- Multiload Technology VoltMaster transformer 89
- National Instruments PXI Configurator chassis selection utility 226
- National Semiconductor LM4753 audio amplifier 185
- NORDX/CDT Optimax2 fibre connector 274
- PBE Systems CTC PowerStation RS machine control system 275
- PEP Modular Computers CompactPCI CPU board 6
- PPM SCOUT CCTV cameras 89
- Protel International PCB design software 274
- Rockwell Automation RSLinx software 8
- Rockwell Automation 1203-CN1 interface module 88
- Rockwell Automation Motion Book 3.0 CD-ROM 139
- Rockwell Automation Allen-Bradley PanelView 550 interface 186
- Rockwell Software RSWire 3.20 Designer 275
- Seaward Electronic PATSWin portable appliance testing software 9
- Schaffner Avansis 9000 test systems 138
- Siemens Semiconductors FingerTIP evaluation kit 138
- Siemens Passive Components UltraCap double layer capacitors 227
- Skygate Technology Linux distribution 138
- Solid State Supplies USB04 TVS arrays 185
- Speakerbus SB534-CamScreen digital intercom 275
- Spectrum Signal Processing digital radio range 9
- SPSS Science SigmaScan Pro 5.0 image analysis software 184
- Sun Microsystems UltraSPARC IIi microprocessor 185
- Sunon GB0535ACB blower 91
- Toshiba Electronics compact rectifier modules 184
- Uninterruptible Power Supplies Ltd PowerWAVE 3000 275
- VeriFone vPOS payment software 9
- Wavetek Wandel Goltermann 4201S GSM tester 186
- Wind River Systems Tornado for Automotive Control 139
- WPI Oyster Termiflex data collection terminals 6


## Book reviews


- Bayliss, C.: Transmission and distribution electrical engineering 252
- Eberspächer, J. and Vögel, H.-J.: GSM switching services and protocols 77
- Evans, B.G. (Ed): Satellite communication systems 180
- Fogel, D.B. (Ed): Evolutionary computation: the fossil record 40
- Harper, J.: Monopoly and competition in British telecommunications 112
- Haywood, M.: Managing virtual teams 180
- Kapp, R.: The presenation of technical information 77
- Lorriman, J.: Continuing Professional Development: a practical approach 112
- Mahapatra, P.: Aviation weather surveillance systems 180
- Rudd, D.: Prosperity from technology 252
- Tarassenko, L.: A guide to neural computing applications 40
- Van Der Lubbe, J.C.A.: Basic methods of cryptography 77
- Vögel, H.-J.: see Eberspächer, J.
- Wolfram, S.: The Mathematica Book 252